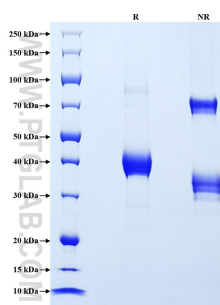


Recombinant Mouse CXCL4/PF4 protein (rFc Tag)

Catalog Number: Eg3345

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/ µg protein, LAL method Source: HEK293-derived Mouse CXCL4 protein Val30-Ser105 (Accession# Q9Z126) with a rabbit IgG Fc tag at the C-terminus. GeneID: 56744 Accession: Q9Z126 Predicted Molecular Mass: 34.5 kDa SDS-PAGE: 35-45 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	CXCL4, alternatively known as platelet factor 4 (PF-4), is the oldest member of the chemokine family. CXCL4 is a chemokine produced by activated platelets and immune cells involved in pathological conditions such as cancer, infections and inflammatory diseases like systemic sclerosis (SSc), rheumatoid arthritis (RA) and psoriatic arthritis (PsA), among others. CXCL4 is present in the α-granules of platelets in amounts that constitute up to 2% platelet protein mass. CXCL4 plays a determinant role in distinct physiological processes such as in hematopoiesis, angiogenesis, coagulation and modulation of immune responses. For instance, CXCL4 can prevent monocyte apoptosis and promote cell survival, induces the production of TNF and reactive oxygen species (ROS) and promotes monocyte differentiation into a unique macrophage-like phenotype.		
References	1. Ruytinx P. et al. (2018). Cytokine.109:65-71. 2. Silva-Cardoso SC. et al. (2019). Mol Immunol. 114:524-534. 3. Dickhout A. et al. (2021). PLoS One. 6(1):e0244736. 4. Domschke G. et al. (2019). Cytokine.122:154141.		
Synonyms	CXCL4/PF4, C-X-C motif chemokine 4, CXCL4, PF-4, Platelet factor 4		

Selected Validation Data



Purity of Recombinant Mouse CXCL4 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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